## WHAT IS CLAIMED IS:

1	1	. A method processing one or more files using a security application, the			
2	method comprising:				
3	connecting the client to a proxy server, the proxy server being coupled to one				
4	or more NAS se	rvers;			
5	r	equesting for a file from a client to the proxy server;			
6	а	uthenticating a requesting user of the client;			
7	authorizing the requesting user for the file requested;				
8	r	equesting for the file from the one or more NAS servers after authenticating			
9	and authorizing;				
10	r	equesting for the file from the one or more storage elements;			
11	t	ransferring the file from the one or more storage elements through the NAS			
12	server to the proxy server;				
13	d	etermining header information on the file at the proxy server;			
14	i	dentifying a policy based upon the header information at the proxy server;			
15	ŗ	rocessing the file according to the policy, the processing including			
16	decompressing	he file, decrypting the file, and verifying the file; and			
17	t	ransferring the processed file to the user of the client.			
1	2	. The method of claim 1 wherein the file comprises retrieval and			
2	2. The method of claim 1 wherein the file comprises retrieval and verification information.				
2	verification inite	mation.			
1	3	. The method of claim 1 wherein the decryption is provided by a NIST			
2	2 approved process.				
1	4	The method of claim 1 wherein the NIST approved process is selected			
2	from AES and 7	• • • • • • • • • • • • • • • • • • • •			
-	nom ribb and r	Tiple DEG.			
1	5	. The method of claim 1 wherein the verifying comprises processing a			
2	keyed message authentication code.				
1	$\epsilon$	The method of claim 5 wherein the keyed message authentication code			
2	is generated using a SHA-1 or MD-5 or SHA-512.				

1	7. The method of claim 1 further comprising determining one of more
2	statistics in a database on a security device.
1	8. The method of claim 7 wherein the database is a secure catalog
2	database.
1	9. The method of claim 8 further comprising using the secure catalog
2	database to detect an intrusion.
1	10. The method of claim 1 further comprising adding information
2	associated to positional integrity to the file.
1	11. The method of claim 1 further comprising generating a signature
2	record on the file to detect any modification of the file.
1	12. The method of claim 1 further comprising identifying a number of
2	blocks stored within a database, the database including the file.
1	13. A system for providing security on a network attached storage, the
2	system comprising:
3	a directed proxy server coupled to a databus, the databus being coupled to a
4	plurality of clients, the directed proxy server being adapted to add header information and to
5	add trailer information on a file by file basis, the directed proxy server being adapted to
6	provide policy information on either or both the header information and the trailer
7	information;
8	a NAS server coupled to the directed proxy server; and
9	one or more storage device coupled to the filer.
1	14. The system of claim 13 wherein the directed proxy server
2	communicates to the filer using an access protocol selected from NFS or CIFS format.
1	15. The system of claim 13 wherein the directed proxy sever is transparent
2	to a user.
1	16. The system of claim 13 wherein the NAS server is transparent to the
2	plurality of clients.

1	17. The system of claim 13 wherein the directed proxy server operates at a			
2	wire speed to add header information and trailer information.			
1	18. The system of claim 13 wherein the directed proxy server is adapted to			
2	maintain a plurality of security keys, one or more of the keys is associated with a group of the			
3.	files.			
1	19. The system of claim 13 wherein the directed proxy server is adapted to			
2	maintain a plurality of security keys, one or more of the keys is associated with a user.			
1	20. The system of claim 13 wherein the policy information is associated			
2	with a service, the service is selected from an encryption process, a decryption process, an			
3	authentication process, an integrity process, a compliance process, an intrusion detection			
4	process, or a promotion process.			
1	21. A method processing one or more files using a security application, the			
2	method comprising:			
3	connecting a security device to a NAS server, the NAS server being coupled to			
4	one or more storage elements;			
5	detecting one or more changed files on the NAS server;			
6	detecting one or more portions of the one or more files that have been			
7	changed;			
8	determining a policy information for at least one of the changed files to			
9	determine a security attribute information;			
10	generating header information for the changed file;			
11	attaching the header information on the changed file;			
12	processing at least one portion of the changed file according to the policy			
13	information, the processing including:			
14	compressing the portion;			
15	encrypting the portion;			
16	generating one or more message authentication codes associated with the			
17	portion of the changed file;			
18	transferring the changed file to one or more of the storage elements.			

2	speed.	22.	The method of claim 21 wherein the processing is provided at whe	
1 2	elements is a	23.	The method of claim 21 wherein the one or more of the storage area network.	
1		24.	The method of claim 21 wherein the transferring of the changed file is	
2	provided via	3C31 II	nterrace.	
1		25.	The method of claim 21 wherein the policy information is provided in	
2	a library.			
1		26.	The method of claim 21 wherein the encrypting is decrypting.	
1		27.	A method processing one or more files using a security application, the	
2	method comp	orising:		
3		conne	ecting the client to proxy server, the proxy server being coupled to one or	
4	more NAS se	ervers;		
5		transi	Ferring a file from a client to the proxy server;	
6		authe	nticating a user of the client;	
7		autho	rizing the user for the file requested;	
8		proce	ssing the file using a keyed message authentication integrity process;	
9		gener	ating header information for the file;	
10		attacl	ning the header information on the file;	
11		transi	ferring the file to one or more of the NAS servers;	
12		transi	ferring the file from the one or more NAS servers to one or more storage	
13	elements.			
1		28.	The method of claim 27 further comprising encrypting the file using a	
2	key size of a	t least 1	28 bits to form an encrypted file.	
1		29.	The method of claim 28 wherein the encrypting is provided using a	
2	NIST approv	ed proc	ess.	
1		30.	The method of claim 28 wherein the encrypting is provided using	
2	AES-128, AES-192, AES-256, Triple-DES.			

1	The method of claim 27 wherein the keyed message authentication				
2	integrity process is provided by SHA-1, SHA-2, MD-5.				
1	32. The method of claim 27 wherein the processing is provided at				
2	wirespeed, the wirespeed being greater than 1 Gigabit/second.				
1	33. The method of claim 27 wherein the authenticating, authorizing,				
2	processing, generating, and attaching are provided at the proxy server.				
1	34. The method of claim 27 wherein the header information comprises at				
2	least one element selected from a time stamp, Encrypted Data Encrypted Key, Encrypted				
3	Data Hash MAC key, and File attributes.				
1	35. The method of claim 27 further comprising transferring the file to one				
2	or more to other storage elements.				
1	36. A method processing one or more files using a security application, the				
2	method comprising:				
3	connecting the client to server, the server being coupled to one or more storage				
4	elements;				
5	transferring a file from a client to the server;				
6	authenticating a user of the client;				
7	authorizing the user for the file requested;				
8	processing the file using a keyed message authentication integrity process;				
9	generating header information for the file;				
10	attaching the header information on the file; and				
11	transferring the file to one or more of the storage elements.				
1	37. The method of claim 36 further wherein the one or more storage				
2	elements comprises one or more NAS servers to one or more storage elements.				
1	38. The method of claim 36 further comprising encrypting the file using a				
2	key size of at least 128 bits to form an encrypted file.				
1	39. The method of claim 38 wherein the encrypting is provided using a				
2	NIST approved process.				

1	40. The method of claim 38 wherein the encrypting is provided using		
2	AES-128, AES-192, AES-256 or Triple-DES.		
1	41. The method of claim36 wherein the keyed message authentication		
2	integrity process is provided by SHA-1, SHA-2, MD-5.		
1	42. The method of claim 36 wherein the processing is provided at		
2	wirespeed, the wirespeed being greater than 1 Gigabit/second.		
1	43. The method of claim 36 wherein the authenticating, authorizing,		
2	processing, generating, and attaching are provided at the proxy server.		
. 1	44. The method of claim 36 wherein the header information comprises at		
2	least one element selected from a time stamp, Encrypted Data Encrypted Key, Encrypted		
3	Data Hash MAC key, and File attributes.		
1	45. A method for providing secured storage of data, the method		
2	comprising:		
3	providing a key encryption key;		
4	storing the key encryption key on a system;		
5	storing a message authentication code generating key on the system;		
6	decrypting a file encryption key with the key encryption key;		
7	decryption a file message authentication code generating key with the key		
8	encryption key;		
9	using the file encryption key to decrypt data stored on a server or encrypt data		
10	originated by a user on a client;		
11	generating a message authentication code for a header of the file with the		
12	message authentication code generating key; and		
13	using the file message authentication code generating key to generate one or		
14	more message authentication codes block by block in the file.		
1	46. The method of claim 45 wherein the file encryption key is provided in		
2	the file.		
1	47. The method of claim 45 wherein the file message authentication key is		
2	provided in the file		

- 1 48. The method of claim 45 wherein the file message authentication key
- 2 verifies content of data of the file upon a read process.